

Title (en)
CONTACTLESS SMART CARD

Title (de)
KONTAKTLOSE CHIPKARTE

Title (fr)
CART INTELLIGENTE SANS CONTACT

Publication
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Application
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Abstract (en)
The invention relates to constructional details of the mounting of circuits on digital data carriers for the transfer of data, and more particularly relates to the structure of contactless smart cards. The desired technical effect of broadening the range of technical means that can be used as contactless smart cards configured in the form of a ring, and also of simplifying the device, is achieved in a device containing the following disposed in a protective housing configured in the form of a ring: a microchip on a dielectric substrate; a frame antenna, the outputs of which are connected to the outputs of the microchip; and a capacitor arranged on the dielectric substrate and connected in parallel to the frame antenna to form therewith a contactless smart card antenna in the form of a resonant circuit, wherein the dielectric substrate is configured in the form of a ring having windings of a conductive material which form the frame antenna, and the protective housing, which is configured in the form of a ring, is made of a conductive material and has a transverse technical slot filled with a dielectric material, and also an inner annular groove in which the dielectric substrate with the microchip, the frame antenna, the capacitor and the conductive material windings are fastened.

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